Title (en)

ADHESION PROMOTERS

Publication

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Application

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Abstract (en)

[origin: EP0088527A2] An adhesion promoter for promoting the adhesion of a reduced polymerizable composition to a substrate, particularly for promoting the adhesion of radical polymerizable dental composition to tooth material, comprises a polyethylenically unsaturated monophosphate or salt thereof, the unsaturated monophosphate containing a monophosphate radical of the formula:and at least three ethylenically unsaturated groups per molecule.Preferred polyethylenically unsaturated phosphates are monophosphates of polyhydric alcohols containing at least four hydroxyl groups in which at least three hydroxyl groups are esterified with an ethylenically unsaturated carboxylic acid. Especially preferred unsaturated phosphates, which are provided as a feature of the invention, are those of the formula:in which R is an aliphatic radical (which may be interrupted by one or more oxygen atoms), or a cycloaliphatic or aryl radical having a valency of R + 1 and containing from 4 to 16 carbon atoms; R¹ is a hydrogen or halogen atom or a cyano of C₁- C₃ alkyl group; and n is an integer of at least 3.The polyethylenically unsaturated monophosphate may be first applied to the substrate, e.g. as a volatile organic solvent solution thereof, and the reduced polymerizable material then applied to the substrate and polymerized thereon. Alternatively, the polyethylenically unsaturated mor hate may form part of a radical polymerizable dental filling material applied to tooth material.

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IPC 8 full level

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Cited by

EP0333503A3; EP1462080A1; EP0161386A3; US4816495A; EP0183027A3; US4657941A; EP0161337A3; US6245872B1; WO0067701A1; US6660785B2; US6407148B1

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